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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/000,443	1	12/04/2001	Jeong Ho Kim	K-0349 9177		
34610	7590	07/21/2003		•		
FLESHNEI		, LLP	EXAMINER			
P.O. BOX 22 CHANTILL)153		MULL, FRED H		
				ART UNIT	PAPER NUMBER	
				3662	, ,	
				DATE MAILED: 07/21/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
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Office Action Summary	10/000,443	KIM ET AL.	\sim				
Onice Action Summary	Examiner	Art Unit	1				
The MAILING DATE of this communication app	Fred H. Mull	3662	<u> </u>				
Period for Reply	jears on the cover sheet with the c	orrespondence duares.	•				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this commur D (35 U.S.C. § 133).	nication.				
1) Responsive to communication(s) filed on 6-9-	<u>-2003</u> .						
2a)⊠ This action is FINAL . 2b)□ Th	is action is non-final.						
3) Since this application is in condition for allows			erits is				
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.D. 11, 2	155 O.G. 215.					
4)⊠ Claim(s) <u>1-32</u> is/are pending in the application	1.						
4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-32</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)⊠ The specification is objected to by the Examine							
10) ☐ The drawing(s) filed on is/are: a) ☐ acce							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120	actimiot.						
13) △ Acknowledgment is made of a claim for foreign	n priority under 35 H S C & 110/s	a)_(d) or (f)					
a) All b) Some * c) None of:	in priority under 33 0.3.C. § 119(8	1)-(u) or (i).					
1.⊠ Certified copies of the priority document	s have been received						
Certified copies of the priority document Certified copies of the priority document		ion No					
3. Copies of the certified copies of the prior			16				
application from the International Bu * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).		, •				
14) ☐ Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. § 119(e) (to a provisional app	lication).				
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 							
Attachment(s)	10 priority and 00 0.0.0. 33 120	, GNO/OF 121,					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152					

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DETAILED ACTION

Specification and Claim Objections

1. On p. 8, paragraph 27 and in claim 14 of the application, applicant fails to address the definition of the "E" in the equation. The examiner believes this is mean to refer to the estimated value of the enclosed quantity. If this is correct, applicant should amend the claim to make this clear, for example, by inserting -- 'E[]' denotes the estimated value,-- in the explanation section under the equation. If the "E" does not refer to the estimated value, then whatever "E" represents should be defined.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-32 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The implementation of the determination of the QoS (Quality of Service) parameter is insufficiently disclosed. It is unclear whether an input based on the signal received at the antenna array from the mobile is needed to determine the QoS parameter or not. In Fig. 2, there is no input from the array antenna 201 to the QoS determining part 204, so that it does not appear

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that the QoS parameter is being determined from the mobile or the received signal. However, in applicant's reply, in the first paragraph of p. 12, applicant states that the QoS could be based upon a signal to interference and noise ratio (SINR). However, this would require the QoS determining portion receiving as an input some information about the signal being received at the antenna array (i.e. the mobile's signal strength, and the interference strength being measured at the array. Because of this inconsistency, one skilled in the art would not be able to make and/or use the invention.

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred H. Mull whose telephone number is 703-305-1250. The examiner can normally be reached on M-F 9:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza can be reached on 703-360-4171. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9326 for regular communications and 703-872-9327 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1113.

Fred H. Mull Examiner Art Unit 3662

fhm July 18, 2003

THOMAS H. TARCZA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600

Moma H. Davez